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① 09/408,839 → Patent No 5,905,460

② 09/924,501 → Patent No 5,936,577

③ 09/640,794 → Patent No. 5,907,325

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Terms: **patno=5936577** ([Edit Search](#))

953666 (08) 5936577 August 10, 1999

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

5936577

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August 10, 1999

Adaptive antenna

REISSUE: Reissue Application filed Aug. 9, 2001 (O.G. Jan. 15, 2002) Ex. Gp.: 3662; Re. S.N. 09/924,501, (O.G. January 15, 2002)

APPL-NO: 953666 (08)


FILED-DATE: October 17, 1997

GRANTED-DATE: August 10, 1999

CORE TERMS: beam, antenna, sector, exciting, width, adaptive, receiving antenna, transmitting antenna, station, transmission ...

ENGLISH-ABST:

Features of an adaptive antenna are a controlling portion 11 as a method for detecting the communication amount of each beam and an antenna controlling portion 7 as a controlling method for controlling the pattern of each beam corresponding to information of the detected communication amount. In particular, an exciting weight of each antenna element is controlled corresponding to the detected communication amount and thereby the pattern of each beam is controlled. Thus, the communication amounts of individual beams can be flexibly well-balanced. Consequently, the communication capacity of the base station can be effectively used.

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Terms: **patno=5936577** ([Edit Search](#))

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Segments: Appl-no, English-abst, Granted-date, Reissue

Date/Time: Thursday, April 22, 2004 - 10:07 AM EDT

1 / 1 PLUSPAT - ©QUESTEL-ORBIT - image

Patent Number :

US5936577 A 19990810 [US5936577]

Title :

(A) Adaptive antenna

Patent Assignee :

(A) TOKYO SHIBAURA ELECTRIC CO (JP)

Patent Assignee :

Kabushiki Kaisha Toshiba, Kawasaki [JP]

Inventor(s) :

(A) SHOKI HIROKI (JP); MUKAI MANABU (JP); YOKOI TOKIHIKO (JP)

Application Nbr :

US95366697 19971017 [1997US-0953666]

Priority Details :

JP27624996 19961018 [1996JP-0276249]

Intl Patent Class :

(A) H01Q-003/22 H04Q-007/00

EPO ECLA Class :

H01Q-003/26C

H01Q-025/00

US Patent Class :

ORIGINAL (O) : 342373000; CROSS-REFERENCE (X) : 370339000
455562100

Document Type :

Corresponding document

Citations :

US5548813; US5596329; US5734345; US5754139; US5815116;
EP0595247; WO9409568; WO9509490; WO9629836
Simon C. Swales, et al., "The Performance Enhancement of Multibeam
Adaptive Base-Station Antennas For Cellular Land Mobile Radio Systems",
IEEE Transactions on Vehicular Technology, vol. 39, No. 1, Feb. 1990, pp.
56-67.

Mitsuhiko Mizuno, et al., Electronics & Communications in Japan, vol. 77,

No. 2, pp. 48-58, Feb. 02, 1994, "Application of Adaptive Array Antennas to Radio Communications".

Publication Stage :

(A) United States patent

Abstract :

Features of an adaptive antenna are a controlling portion 11 as a method for detecting the communication amount of each beam and an antenna controlling portion 7 as a controlling method for controlling the pattern of each beam corresponding to information of the detected communication amount. In particular, an exciting weight of each antenna element is controlled corresponding to the detected communication amount and thereby the pattern of each beam is controlled. Thus, the communication amounts of individual beams can be flexibly well-balanced. Consequently, the communication capacity of the base station can be effectively used.

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Patent Number :

US5936577 A 19990810 [US5936577]

Application Number :

US95366697 19971017 [1997US-0953666]

Action Taken :

20010410 US/CC-A
CERTIFICATE OF CORRECTION

20020115 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20010809

Update Code :

2003-22

1 / 1 CRXX - ©CLAIMS/RRX

Patent Number :

5,936,577 A 19990810 [US5936577]

Patent Assignee :

Toshiba Corp JP

Actions :

20010410 CERTIFICATE OF CORRECTION

20010809 REISSUE REQUESTED

ISSUE DATE OF O.G.: 20020115

REISSUE REQUEST NUMBER: 09/924501

EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 3662

Reissue Patent Number:

Query/Command : FILE INPADOC

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Patent Number :

US 5936577 A 19990810 [US5936577]

Title :

ADAPTIVE ANTENNA

Inventor(s) :

SHOKI HIROKI [JP]; MUKAI MANABU [JP]; YOKOI TOKIHIKO [JP]

Patent Assignee (Words) :

TOKYO SHIBAURA ELECTRIC CO [JP]

Application Details :

US 953666/97-A 19971017 [1997US-0953666]

Priority Details :

JP 276249/96-A 19961018 [1996JP-0276249]

Intl. Patent Class. :

H01Q-003/22; H04Q-007/00

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